

Standards of Public Land Health

Evaluation of 62046 VAUGHN SE Allotment

[03/03/2010]

The Roswell Field Office conducted rangeland health assessments at 1 study site within 62046 VAUGHN SE. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
62046-IDSU-A053	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on the Vaughn SE allotment, 62046. Ten of these assessed soil site stability, 11 hydrologic functions and 13 assessed biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected at the trend study plot locations within the allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office interdisciplinary teams, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. The collections which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years. This allotment is in the "C" (Custodial) category.

This allotment contains 1,079 acres of public land. The study is located on one ecological site; Hills CP-3. All but one of the indicators for this location fell into the None to Slight category; the category Water Flow Patterns was rated as Slight to Moderate. There are no riparian areas on the public land within this allotment.

Recommendations: With all of the indicators falling in the None to Slight or Slight to Moderate category, this allotment is rated as "Meeting" the standards for Rangeland Health. Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grass cover and good plant composition remains.

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 62046-IDSU-A053						
Legal Land Desc	SWSE 21 0040N 0170E Meridian 23	Acreage		1079		
Ecosite	070CY106NM HILLS CP-3	Photo Taken		Y		
Watershed	13060003030 EAST VAUGHN					
Observers	ORTEGA & ARNOLD	Observation Date		03/03/2010		
County Soil Survey	NM019 GUADALUPE	Soil Var/Taxad				
Soil Map Unit	076	Soil Taxon Name		PASTURA		
Texture Class	NM019 FSL	Soil Phase		PASTURA- CLOVIS		
Texture Modifier	NM019 FINE SANDY LOAM					
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation				
NOAA Annual Precipitation		NOAA Growing Season Precipitation				
NOAA Avg Annual Precipitation		NOAA Avg Growing Season Precipitation				
Disturbances and Animal Use:						
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:	short & stable					
S H	Pedestals and/or Terracettes					X
Comments:						
S H	Bare Ground					X
Comments:	0-5%					

S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion					X
Comments:						
S H B	Soil Surface Loss or Degradation					X
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups					X
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:						
B	Annual Production					X
Comments:						
B	Invasive Plants					X
Comments:	very small amount of cholla					
B	Reproductive Capability of Perennial Plants					X
Comments:	good seed source					
S	Physical/Chemical/Biological Crusts					X
Comments:						
B	Wildlife Habitat					X
Comments:						

B	Wildlife Populations					X
Comments:						
B	Special Status Species Habitat					
Comments:	Not applicable					
B	Special Status Species Populations					
Comments:	Not applicable					
Part 3. Summary						
A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.						
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	1	9
H	Hydrologic	0	0	0	1	10
B	Biotic	0	0	0	0	11
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.						
Attribute	Rationale	Does Not Meet	May Need More Info	Meets		
Soil		0	0	10		
Hydrologic		0	0	11		
Biotic		0	0	11		
Site Notes: A. livestock water location is approximately 100 yards from this site. Allotment looks excellent overall.						

Determination of Public Land (Rangeland) Health for 62046 VAUGHN SE

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Vaughn SE, allotment #62046, meets the (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ J. Howard Parman
Acting Assistant Field Manager

05/21/2010
Date